|  | 1  |   |  |
|--|--|---|--|
|  | Application No.  | Applicant(s)  |  |
| Matica of Allaniah life.   | 10/602,377   | CHIU ET AL.   |  |
| Notice of Allowability   | Examiner   | Art Unit  |  |
|  | Cynthia Britt  | 2138  |  |
| The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.31  1. ☑ This communication is responsive to 6/24/03.  2. ☑ The allowed claim(s) is/are 1-20.  3. ☑ Acknowledgment is made of a claim for foreign priority u a) ☑ All b) ☐ Some* c) ☐ None of the:  1. ☑ Certified copies of the priority documents hav 2. ☐ Certified copies of the priority documents hav 3. ☐ Copies of the certified copies of the priority documents hav  | s (OR REMAINS) CLOSED in ) or other appropriate communition RIGHTS. This application is so and MPEP 1308.  Inder 35 U.S.C. § 119(a)-(d) of the been received. The been received in Application | this application. If not includ inication will be mailed in due ubject to withdrawal from issure (f).                                     | ed<br>course. THIS<br>ue at the initiative |
| International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:  Applicant has THREE MONTHS FROM THE "MAILING DATE"   |  |   |  |
| noted below. Failure to timely comply will result in ABANDON! THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.   | MENT of this application.  |   |  |
| <ol> <li>A SUBSTITUTE OATH OR DECLARATION must be subn<br/>INFORMAL PATENT APPLICATION (PTO-152) which give</li> </ol>   |  |   | IOTICE OF                                  |
| <ol> <li>CORRECTED DRAWINGS ( as "replacement sheets") mu</li> <li>(a) including changes required by the Notice of Draftsper         <ol> <li>to Paper No./Mail Date</li> <li>including changes required by the attached Examiner Paper No./Mail Date</li> <li>Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in</li> </ol> </li> <li>DEPOSIT OF and/or INFORMATION about the deposite of the position of t</li></ol> | son's Patent Drawing Review 's Amendment / Comment or 1.84(c)) should be written on the the header according to 37 CFI osit of BIOLOGICAL MATE   | in the Office action of<br>the drawings in the front (not the<br>R 1.121(d).<br>ERIAL must be submitted.                                  | •  |
| Attachment(s)  1. ☑ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/Paper No./Mail Date 6/24/03  4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material   | 6. ☐ Interview Su<br>Paper No./I<br>08), 7. ☐ Examiner's .<br>—  | formal Patent Application (PT)  Jummary (PTO-413),  Mail Date  Amendment/Comment  Statement of Reasons for Allo  GUY LAMARI  PRIMARY EXAM | owance                                     |

## **REASONS FOR ALLOWANCE**

Claims 1-20 are allowable over the prior arts of record.

The following is an examiner's statement of reasons for allowance:

The present invention pertains to a specific method and pattern use for testing a flash memory device. The claimed invention (claim 1 as representative) recites the method steps of "...(a) erasing a flash memory cell array; (b) programming cells of the flash memory cell array except in a first diagonal; (c) reading cells in the first diagonal of the flash memory cell array; (d) programming the cells in the first diagonal of the flash memory cell array, and (e) reading the cells of the flash memory cell array except in the first diagonal." This particular method is used in order to speed up the testing process of the flash memory device.

The prior arts of record (Chang U.S. Patent No. 5,954,831 as an example of such prior arts) teach various methods and patterns for testing memories such as a sliding diagonal pattern and marching patterns. However the prior arts fail to teach erasing a flash memory cell array; programming cells in a first diagonal of the flash memory cell array in a direction opposite to the first diagonal; and reading the cells of the flash memory cell array except in the first diagonal (as in independent claim 18). Therefore, the sequential single diagonal method of erasing and programming a flash memory device is neither anticipated nor rendered obvious by the prior arts of record. Hence, claims 1-20 are allowable over the prior arts of record.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably Application/Control Number: 10/602,377 Page 3

Art Unit: 2138

accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cynthia Britt whose telephone number is 571-272-3815. The examiner can normally be reached on Monday - Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Albert Decady can be reached on 571-272-3819. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Cynthia Britt Examiner Art Unit 2138

> GUY LAMARRE PRIMARY EXAMINER